

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**MCDR INSPECTION REPORT**

**Gandhinagar regional office**

**Mine file No :** RAJ/UDP/LST-1

**Mine code :** 38RAJ26003

- (i) Name of the Inspecting : **K018** ) **DR A Z KHAN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : SH AD SAXENA GEOLOGIST  
Official with  
Designation
- (iv) Date of Inspection : 07-JAN-19
- (v) Prev.inspection date : 15-NOV-17

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **DAROLI (ML.2/88)**
- (b) **Registration NO.** : **IBM/8329/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **RAJASTHAN**
- District : **UDAIPUR**
- Village : **MANDERIA**
- Taluka : **VALLABH NAGAR**
- Post office : **DAROLI**
- Pin Code : **313022**
- FAX No. :
- E-mail : **mines@ucwl.jkmail.com**
- Phone : **0294-2411496 (0)**
- (f) **Police Station** : **Dabok**
- (g) **First opening date** :
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **VILL&POST-DAROLI**  
**correspondance** : **TAL-BALAVNAGAR**  
: **DISTT-UDAIPUR**
3. (a) **Lease Number** : **RAJ1882**
- (b) **Lease area** : **703.31**
- (c) **Period of lease** :
- (d) **Date of Expiry** : **31-MAR-30**
4. **Mineral worked** : **LIMESTONE** **Main**

## 5. Name and Address of the

Lessee : UDAIPUR CEMENT WORKS LTD.  
SHRIPATINAGAR PO CFA, NEAR  
DABOK DISTT- UDAIPUR  
UDAIPUR RAJASTHAN  
Phone:  
FAX :

Owner : R.K.GUPTA  
SHRIPATINAGAR PO.- CFA,  
NEAR DABOK DISTT- UDAIPUR  
UDAIPUR RAJASTHAN  
Phone: 91(0294)2561041  
FAX :

Agent : Shri Dinesh Kumar Arora  
Daroli Limestone mine,  
Vill- Daroli, near Dabok  
Distt- Udaipur UDAIPUR  
RAJASTHAN  
Phone: 9694080484  
FAX : 0292655077

## Mining Engineer

Name : Balkishan Sharma, Full Time  
Qualification : AMIE  
Appointment/ : 15-APR-16  
Termination date

## Geologist

Name : Dr. Amardeep Saxena, Full Time  
Qualification : M. Sc , Ph. D ( Geochemistry)  
Appointment/ : 12-JAN-16  
Termination date

## Manager

Name : MOHAN PALIWAL  
Qualification :  
Appointment/ : 17-JUN-15  
Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	04-JAN-01
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	27-SEP-01
	:	Modif.of approved Mining Plan	05-DEC-06
	:	Mining Scheme rule 12 MCDR1988	19-NOV-13
	:	Modif.of approved Mining Plan	29-JUL-16

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	None	NIL	
1b	Exploration over lease area for geological axis 1 or 2	No proposal	NIL	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Remaining area is to be explored.	
1e	Balance reserve as on 01/04/20	No specific proposal	Cat. 111-----43 Mill.Tonne 122-----13 Mill. Tonne 211-----5 Mill. Tonne 222-----1 Mill. Tonne 333-----110 Mill. Tonne	
1f	General remarks of inspecting officers on geology, exploration etc			The remaining area of the lease should be explored. Lessee has been advised to give the future exploration proposal accordingly.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Year Name of Block Bench Proposed Location 2017-18 Manderia Block 521-512 2719312N to 2719583N & 391376E to 391564E  512-503 South Daroli Block-II 509-500 2721551N to 2721851N & 390894E to 391238E  500-491  491-482	Year Name of Block Bench Actual 2017-18 Manderia Block 521-512 2719725N & 391350E to 391825E  512-503  South Daroli Block-II 509-500 2721720N to 2722100N & 390894E to 391270E  500-491  491-482	Violation of rule 11(1) of MCDR,2017 has been issued for deviation from approved proposal
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Mineral Benches are formed	No Topsoil and Overburden encountered hence only mineral benches formed	
2c	Stripping ratio or ore to OB ratio	1:0.04	Ore to IB Ratio : 1:0.008	Development has not been carried out as per approved proposal. Violation of rule 11(1) has been pointed out for Deviation from approved location.
2d	Quantity of topsoil generation in m3	No proposal of top soil generation of NIL		
2e	Quantity of overburden generation in m3	No proposal of OB. 170039 tonne of Inter burden proposed.	There is no OB generation. Only 28536 tonne Inter burden generated.	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development has not been carried out as per approved proposal. Violation of Rule 11(1) of MCDR, 2017 has been pointed out.
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## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Manderia Block 521-512 2719312N to 2719583N  512-503 391376E to 391564E South Daroli Block-II 509- 500 2721551N to 2721851N  500-491 390894E to 391238E 491-482	Manderia Block 521-512 2719312N to 2719725N  512- 503 391350E to 391825E South Daroli Block-II 509-500 2721720N to 2722100N 500- 491 390894E to 391270E 491-482	
3b	Quantity of ROM mineral production proposed	1700394 MT	1274454 MT	Diffrenet figures for production given in different part of AR 2017-18. The actual production figure taken is the sum total of MR of April 17 to March,18.
3c	Recovery of sailable/usable mineral from ROM production	Almost 100 %	Almost 100 %	
3d	Quantity of mineral reject generation	Not proposed	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	No mineral reject generation.	

3f	Quantity of sub grade mineral generation.	Not proposed	NIL	
3g	Grade of sub grade mineral generation	Not proposed	No sub grade generation	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	None	
3j	Provision of drilling and blasting in mineral benches	Proposed	Drilling & blasting in mineral benches is being carried out by 165 mm dia holes and ANFO with booster explosives	
3k	Provision of mining machineries in mineral benches	Loading with L&T 300 /Komatsu Excavators and transportation by 25T dumpers	Loading with L&T 300 /Komatsu Excavators and transportation by 25T dumpers	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	There is no overburden bench however Bench height proposed in mineral is 9 mtrs	Bench height maintained at 9 mtrs	
3m	Total area covered under excavation/pits	No specific year wise proposal given	53.0 hect	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.04 ( Ore to IB Ratio)	Ore to IB Ratio : 1:0.008	Deviation in exploitation from proposed location.
3o	Total area put in use under different heads at the end of year	No specific year wise proposal	Pit quarries: 53.00 Hect Waste dump : 1.50 Hect Road & building : 2.00 Hect Plantation: 7.50 Hect Mineral stack: 0.50 Hect	

3p	Production of ROM mineral during the last five year period as applicable	2013-14: 2014-15: NIL 2015-16: 851506 MT 2016-17: 1275199 MT 2017-18 :1700394 MT	2013-14: 2014-15: NIL 2015-16: NIL 2016-17: 302303.794 MT 2017-18 : 1274454 MT	Diffrenet figures for production given in different part of AR 2017-18. The actual production figure taken is the sum total of MR of April 17 to March,18.
3q	General remarks of inspecting officers on method of mining etc.			ROM production during the year 2017-18 is with the approved limit.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal for Top soil, OB & Mineral reject. Proposal of Inter burden disposal is given	There is no generation of TOP soil, OB & Mineral reject. The 28,536 tonne of Inter burden dumped at the proposed location	
4b	Location of topsoil, OB and mineral reject dumps	No proposal	There is no generation of TOP soil, OB & Mineral reject. The 28,536 tonne of Inter burden dumped at the proposed location	
4c	Number of dumps within lease area and outside of lease area	01	01	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side UPL	Out side UPL	
4e	Number of active and alive dumps.	01	01	
4f	Number of dead dumps.	None	None	
4g	Number of dumps established.	None	None	
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain proposed	Garland drain made	

4i	Length of Retaining wall or garland drain all along dumps	100Mtrs	350 Mtrs	
4j	Number of settling ponds	Not proposed	None	
4k	Specific comments of inspecting officer on waste dump management			The waste generated has been dumped on the approved location

#### Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Not proposed	Pits are active	
5b	Area under backfilling of mined out area	Not proposed	No back filling done during the year 2017-18	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed	No top soil generation	
5d	Total area fully reclaimed and rehabilitated	Not proposed	None	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Back filling has not been carried out because the pits are active.

#### Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Yes	Yes	



6b	Area available for rehabilitation (ha) .	5.0 Ha	5.0 Ha
6c	afforestation done (ha).	5.0 ha	5.0 ha
6d	No. of saplings planted during the year	10000	7500
6e	Cumulative no .of plants	Not proposed	22300
6f	Any other method of rehabilitation	None	None
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No backfilling proposal during year 2017-18	Back filling not done
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No backfilling proposal during year 2017-18	Backfilling not done
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No backfilling proposal during year 2017-18	None
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No backfilling proposal during year 2017-18	None
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No backfilling proposal during year 2017-18	None
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	10000	7500

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	5.0ha	5.0ha	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation	Plantation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Air , water and Noise monitoring in and outside the lease area	4 permanent stations erected for the purpose. Periodic monitoring done .	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Lessee is taking care of encironment. 4 permanent stations erected for the purpose of periodic monitoring .

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Cement grade limestone dispatch	Cement grade limestone dispatched to captive cement plant	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not proposed	NA	
7c	Different grade of mineral sorted out at mines.	No sorting proposed	Whole ROM mineral except interburden feed to captive cement plant	
7d	Any beneficiation process at mines	Not proposed	None	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	For mineral conservation, the low grade limestone mixed with high grade and feed to captive cement plant
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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	No top soil generation	
8b	Concurrent use or storage of topsoil	Not proposed	No top soil generation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	separate dumping of waste rock proposed	Separate dumping of waste rock has been done on approved location	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	Rehabilitation by plantation has been done	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	during 2017-18, plantation of 10000 sapling proposed	7500 sapling planted. cumulative plantation upto year 2017-18 is 22300	
8g	Survival rate	95%	90%	

8h	Water sprinkling on roads to control airborne dust	Water sprinkling carried out	Water sprinkling carried out on haul roads	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty is good except land degraded by excavation pits & dump

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Proposed for monthly & annual report submission	Monthly report submitted for month of January 2019 Annual report submitted for the year 2017-18	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information given	Name of Mining Engineer, Geologist & Manager given	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Information given	The details given are not matching the figures given in PMCP table of the approved mining plan dated 06.01.2014	Violation of rule 45(7) of MCDR, 2017 has been pointed out
9d	Scrutiny of Annual return on afforestation	Information given	Information about plantation & survival rate given	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No proposal was in the approved mining plan	Information as zero is given	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Information given	The information of ROM figure given differs with the ROM figure given at other places of AR	Vilation of rule 45(7) of MCDR has been pointed out
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Information given	The information of ROM figure given differs with the ROM figure given at other places of AR	

9h	Scrutiny of Annual return on fixed assets	Information given	Value of fixed assets only of Rs.21737 has been given in respect of mine, plant, mine work- shop etc.	Violation of rule 45(7) has been pointed out
9k	Scrutiny of Annual return on mining machineries	Information given	Details of machineries given	

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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed				Show cause position		
Rule NO.		Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	04-FEB-19	02-APR-19			
MCDR17	Rule 47(a)	04-FEB-19	02-APR-19			
MCDR17	Rule 48	04-FEB-19	02-APR-19			
MCDR17	Rule 45(7)(a)	04-FEB-19				

**Date :**

(DR A Z KHAN)

Indian Bureau of Mines